

Prior Art

Figure 1

Run mode configured to make
an on-chip assessment of amount
of repaired memories and flag any
device failed when it exceeds a certain limit
— build a counter as part of BISR which
is thereafter loaded through a test pattern
during production testing that establishes
the threshold for pass/fail criteria

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Run power-on state machine configured to load a computed repair solution and thereafter test the memories for any additional failures and, if there are any, repair them (provided enough redundant elements are available)

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Figure 2

